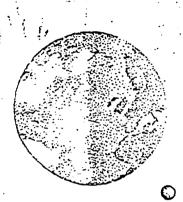
LMSD-2832 6, JANUARY 1950 Cy # 2 148 Shutz



WS 117L

DEVELOPMENT PLAN
FOR PROGRAM ACCELERATION

CONTRACT AF 04(647)-97



LOCKHEED AIRCRAFT CORPORATION MISSILE SYSTEMS DIVISION SUNNYVALE, CALIFORNIA





INTRODUCTION

The WS-117L program now under development has as its objective the provision of complete reconnaissance systems utilizing satellite horne sensing devices. The material here represents a development plan for accelerating this program, and has been prepared by the Lockheed Missile Systems Division in its role as the WS-117L Weapon System Contractor.

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In the course of negotiations on 12 to 19 November 1957 for the WS-117L definitive contract, it was requested by AFBLD personnel that Lockheed consider modification of the program for a potential acceleration. Included was consideration of increasing the tempo of vehicle firings to assure greater probability of program success and to reduce the development time scale of a first Pioneer Visual flight capability by one year to March 1960. Subsequently it was requested that consideration be given to developing the Pioneer Ferret system to a time scale comparable to that of the Visual.

In view of recent emphasis on missile weapon systems, it appeared appropriate to the Contractor to consider the inclusion of two alternate approaches in the development program: (1) The use of an IREM missile as a booster, and (2) The physical recovery of reconnaissance photographs from the orbiting vehicle. Both approaches have been a part of the Contractor's over-all program concept from its inception but had been shelved due to initial funding limitations. The combination of the two approaches will provide a system attaining very early reconnaissance capability. This is quite similar to a method proposed recently by the RAND Corporation using the Thor as a booster and a panoramic camera, in a spin-stabilized recoverable capsule, on orbit.





The over-all program presented here is essentially the same as that presented to AFBND on 27 November and 5 December 1957, but incorporates the RAND concept for early Thor-boosted reconnaissance flights.

The Contractor believes strongly that should additional funds be available for enhancement of the U. S. military program, consideration should be given to augmentation of the present WS-117L program in the manner and amount shown in Figure 1. This would allow capitalization of the established broad WS-117L base toward expeditious accomplishment of its military objectives. Expanding the vehicle firing rate from four to 14 by Feb. 1960 will allow a more efficient utilization of the system, increase ultimate reliability, and bring about earlier reconnaissance capability.



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PLEASE CALL COLONEL HUGHES, 2224, OR LT COL BOGERT, 2224
AND ASK ONE OF THEM TO COME TO THIS MACHINE. WE WILL SEME
YOUR MESSAGE WHILE YOU ARE CONTACTING THEM, AND THEM STAND BY FOR THEIR
REPLY. THEN WE HAVE A SECOND MESSAGE FOR MAJOR ZELLAKA OR HIS
ASSISTANT /INWDTR/. YOU MIGHT ALERT THEM TO BE READY AT THE
MACHINE.

THE DUPUTY COMMANDER/WEAPON SYSTEMS IS PREPARING THE ARDC FIVE YEAR PROJECTED ASTRONAUTICS PROGRAM/ WEAPON SYSTEM/ FOR DELIVERY TO GENERAL PUTT WITHIN THE NEXT FEW DAYS. THE AFBMD HAD ALREADY FURNISHED MATERIAL FOR THIS PAPER. ATTACHED TO THE PAPER WILL BE A SET OF SUMMARY SHEETS SHOWING WHAT WEAPON SYSTEMS ARE IN BEING, OR PLANNED, WITHIN THE ASTRONAUTICS AREA. EACH PAGE COVERS ONE WEAPON SYSTEM. COTLINED AS FOLLOWS CLN

A. BRIEF

- 1. DESCRIPTION / TWO LINES OR LESS/
- 2. CAPABILITY /TWO LINES OR LESS/
 - 3. EXISTING TECHNOLOGY USED / TWO LINES OR LESS/
- 4. PRINCIPAL TECHNICAL PROBLEMS / TWO LINES OR LESS/
- B. R AND D SCHEDULE
 - 1. DEVELOPMENT PERIOD / SHOW END DATE/
 - 2. FLIGHT TEST PERIOD / SHOW END DATE/ [
- 3. OPERATIONAL SYSTEM DELIVERY DATE
- C. FUNDING /FOR FY 58 AND FY 59/
 - 1. P-600
 - 2. NON-600
 - 3. TOTAL

WE HAVE BEEN ASKED TO PREPARE FOUR OF THESE SHEETS ON A CRASH BASIS FOR-PRESENTATION TO GENERAL ANDERSON THIS AFTERNOON. THESE SHEETS COVER THOR

TLAS ITAN

WE HAVE ALL THE INFORMATION WE NEED ON THOR, ATLAS, AND TITAL EXCEPT FOR THE R AND D SCHEDULE DATES. WE NEED END DATES, FOR EACH WEAPOUT ON DEVZLOPMENT, FLIGHT TEST, AND OPERATIONAL SYSTEM DELIVERY.

IN ADDITION, WE NEED ALL THE LISTED DATA ON THE SOLID IRBM. CAN YOU MAKE THIS AVAILABLE TO US ON THIS TELETYPE WITHIN THE MEXT FEW HOURS OUT

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2. PROVIEE ZERTETE OF COURT FOR ACUITATE OF FLAT, IN

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1945 COMPANION OF A SECURIC 1945 INDEXEMBER A FACTOR



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OR ITEMS 6 1 AND 2 YOU ARE RESERVED TO VOLUMN 1 OF THE DEVELOPMENT
LANT DAEEER PLANS LATED 1 OCT.

ITH RESPECT TO THE INFORMATION REQUIRED ON THE SOLLS THEMS TO WILLAMSWER IN 2 HOURS

THAT IS ALL FOR HTRE STAND BY FOR MAJ ZENEAKS

TOR COL RUCHES

HAVE CHECK VOL 1 OF THE DEVELOPMENT FIGHT AND IT IS CLEAR THAT THE ATLAS LAND THAN EMSTEM OFFICERS USED DIFFERENT DEFINATIONS FOR THE WORD DEVELOPMENT. FOR EXAMPLE USING VOL 1 IT WOULD AFPEAR THAT ATLAS DEVELOPED A WILL BE FINISHED ABOUT A YEAR LTE XXXX LATER THAN TITE? A HESITATE TO SHOU THIS ON A SCHEDULE, AND THATS RAY I FOLLD APPRECIATE OR VERISION OF THE DATES . I HAVE THE TAME FROBLEM WITH THE TEST DATE. CAN UP HELD ME GUES

A FLS

THE WALL ALSO HAVE IN A VICENTAL IN THE HERRY AVAILABLE IN A HEALT

OR THENRS A LOT WE WILL STAPD BY FOR MAJ ZEPENKA